

700 species of plants, and numerous fine fruits, which he says "will rejoice Sir William Hooker's heart."

Dr. Baikié's postscript, however, mentions that his vessel had been wrecked about twelve miles above Lagos, and that she sunk in a few minutes after she struck. He does not say what was the fate of his collections, but states that all the party had fever from fatigue and sleeping in swamps after the wreck.—J. R.

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Catalogue of the Dipterous Insects collected in the Aru Islands  
by Mr. A. R. WALLACE, with Descriptions of New Species.  
By FRANCIS WALKER.

ARU ISLAND.

Fam. MYCETOPHILIDÆ, *Haliday*.

Gen. SCIARA, *Meigen*.

Div. A. a., *Meig.* vi. 305.

1. SCIARA SELECTA, n. s. *Mas.* Nigra, cinereo-tomentosa, antennis sat validis, pedibus piceis, alis cinereis, venis costalibus crassis.  
*Male.* Black, with cinereous tomentum; antennæ rather stout; legs piceous; wings greyish; veins black; radial and cubital veins thick; radial vein extending to the fork of the subapical. Length of the body  $1\frac{3}{4}$  line; of the wings 4 lines.

Fam. BIBIONIDÆ, *Haliday*.

Gen. PLECIA, *Hoffmansegg*.

2. Plecia dorsalis, *Walk.* See Vol. I. p. 5.

Fam. CULICIDÆ, *Haliday*.

3. CULEX SCUTELLARIS, n. s. *Mas.* Nigro-fuscus, capite thoraceque argenteo trivittatis, scutello rufescente; abdominis segmentis argenteo fasciatis, genibus et tarsorum posticorum fasciis niveis; alis subcinereis, venis nigris ciliatis.  
*Male.* Blackish brown. Head and thorax with three silvery stripes, the middle one very distinct; scutellum reddish; pectus with silvery gloss; abdomen with silvery bands, which are narrow above, broad beneath; femora pale towards the base; knees snow-white; hind tarsi with 5 broad snow-white bands; middle tarsi with the first and second joints white at the base; wings slightly greyish; veins black, fringed. Length of the body 3 lines; of the wings 5 lines.

## Fam. TIPULIDÆ.

Gen. MEGISTOCERA, *Wied.*

4. *Megistocera tuscana*, *Wied. Auss. Zweifl.* 1. 55. 1.  
Inhabits also Java.

Gen. GYNOPLISTIA, *Westw.*

5. *GYNOPLISTIA JURGIOSA*, n. s. *Mas. et Fæm.* Nigra, capite rufescente, alis cinereis, plagis costalibus nigro-fuscis.—*Mas.* Abdomine ochraceo, apice nigro, femoribus basi testaceis.—*Fæm.* Abdomine atro fasciis albidis apice luteo.

*Male and Female.* Black. Head reddish; antennæ testaceous at the base; thorax testaceous in front; wings greyish, blackish-brown along the costa, and with three subcostal blackish-brown patches, the third continued along the veins towards the hind border. *Male.* Abdomen ochraceous, black at the tip; femora testaceous at the base; halteres testaceous. *Female.* Abdomen deep black, with whitish bands on the sutures; tip luteous. Length of the body 5-6 lines; of the wings 9-10 lines.

Fam. STRATIOMIDÆ, *Haliday.*Gen. PTILOCERA, *Wied.*

6. *Ptilocera quadridentata.* See Vol. I. p. 7.
7. *MASSICYTA INFLATA*, n. s. *Fæm.* Nigra, capite viridi maculis nigris, antennis basi ferrugineis, pectoris callis duobus scutelloque testaceis, abdomine basi sordide albido lineis tribus nigris, fasciis duabus canotomentosis, segmentis tertio quartoque apice ferrugineis, tibiis basi tarsisque albidis, alis subcinereis fusco marginatis, stigmatibus nigricante, halteribus testaceis.
- Female.* Black. Head dull green, with several black spots; mouth testaceous; antennæ dark ferruginous towards the base; two pectoral calli and the scutellum testaceous; abdomen at the base dingy-whitish and semihyaline, and with three black lines; third and fourth segments with hoary bands, their hind borders ferruginous; tibiæ towards the base, and tarsi, whitish; hind tibiæ with the two colours most distinctly marked; wings grey, with broad brownish borders; stigma blackish; veins black; halteres testaceous. Length of the body 6 lines; of the wings 11 lines.
8. *MASSICYTA CERIOIDES*, n. s. *Fæm.* Nigra, capite testaceo maculis nigris, antennis basi ferrugineis, pectoris callis duobus, thoracis vittis duabus interruptis, scutello abdominisque fasciis tribus viridibus, segmento abdominali secundo maculis duabus testaceis, tarsis albis, alis nigricanti-fuscis, halteribus viridibus.

*Female.* Black. Head testaceous, with some black spots on the vertex. Antennæ dark ferruginous towards the base. An interrupted stripe on each side of the thorax, two pectoral calli, the scutellum, and the hind borders of the second, third, and fourth abdominal segments green. Abdomen testaceous at the base beneath; first band interrupted, having before it two testaceous spots. Knees lurid; tarsi white. Wings blackish brown; stigma and veins black; halteres apple-green. Length of the body 5-6 lines; of the wings 10-12 lines.

Gen. SALDUBA, n. g.

*Male.* *Corpus* angustum, sublineare. *Caput* transversum; vertex angustus. *Oculi* magni. *Antennæ* capite transverso valde longiores; articuli primo ad septimum breves; flagellum longum, lanceolatum, subarcuatum. *Thorax* longus, subcompressus; scutellum inerme. *Abdomen* planum, thorace paullo longius. *Pedes* graciles; postici longi. *Alæ* angustæ.

*Male.* Body narrow, nearly linear. Head slightly transverse, nearly as broad as the thorax; vertex narrow. Eyes large. Antennæ shorter than the thorax; joints from the first to the seventh short; flagellum long, lanceolate, slightly curved. Thorax long, slightly increasing in breadth from the head to the base of the wings. Abdomen nearly flat and linear, a little longer than the thorax. Legs slender; hind pair long. Wings narrow; veins complete, distinctly marked; first cubital areolet rather short, divided from the second by the oblique first cubital rim; discal areolet large, hexagonal; subanal and anal veins united at some distance from the border.

9. SALDUBA DIPHYSOIDES, n. s., *Mas.* Nigra, ore flavo, thorace vittis quatuor subauratis, abdominis apice cinereo, pedibus albidis, femoribus posticis apices versus tibiisque posticis nigris, alis cinereis, venis stigmatæque nigris, halteribus testaceis.

*Male.* Black. Mouth yellow; thorax with four stripes of slightly gilded tomentum; tip of the abdomen with cinereous tomentum; legs whitish, hind femora towards the tips and hind tibiæ black; wings greyish, veins and stigma black; halteres testaceous. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

Gen. STRATIOMYS.

10. STRATIOMYS CONFERTISSIMA, n. s. *Fæm.* Nigra, subtus ferruginea, capite fulvo, antennis basi fulvis, thorace vittis quatuor subauratis, scutelli margine fulvo, ventre piceo basi testaceo, pedibus fulvis nigro fasciatis; alis subcinereis, venis stigmatæque nigris, halteribus testaceis.

*Female.* Black, ferruginous beneath. Head, antennæ at the base, border of the scutellum, and legs tawny; antennæ a little shorter than the breadth of the head; thorax with four slightly gilded

stripes; abdomen beneath piceous, testaceous at the base; femora and tibiæ with broad black bands; wings greyish, stigma and veins black; halteres testaceous. Length of the body 4 lines; of the wings  $7\frac{1}{2}$  lines.

11. *STRATIOMYS NEXURA*, n. s. *Mas et Fœm.* Nigra, antennis basi fulvis, capite transverso brevioribus, abdominis lateribus, ventre, tibiis, tarsis halteribusque fulvis, alis limpidis, venis testaceis. *Mas.* Thorace atro piloso. *Fœm.* Thorace nigro-æneo angustiore.

*Male and female.* Black. Head rather prominent; antennæ tawny towards the base, shorter than the breadth of the head; spines of the scutellum, abdomen beneath, tibiæ, tarsi, and halteres tawny; wings limpid, veins testaceous. *Male.* Thorax deep black, pilose; abdomen tawny along each side. *Female.* Head shining; thorax æneous black, narrower than that of the male; abdomen with the tawny stripes much narrower than those of the male. Length of the body  $3\frac{1}{2}$  lines; of the wings  $6\frac{1}{2}$  lines.

Gen. *CLITELLARIA*, *Meigen.*

12. *Clitellaria bivittata*, *Fabr.* See Vol. I. p. 7.

Gen. *GABAZA*, n. g.

*Fœm.* *Corpus* breve, latum. *Caput* transversum, thorace paullo angustius; facies valde obliqua. *Antennæ* capite transverso breviores; articuli breves, transversi; arista longa, gracilis, filiformis. *Scutellum* prominens, spinis duabus minutis. *Abdomen* transversum, thorace multo latius. *Pedes* graciles, breviusculi. *Alæ* sat angustæ; venæ tenues.

*Female.* Body short, broad. Head transverse, a little narrower than the thorax; face very oblique. Antennæ shorter than the breadth of the head; joints short, transverse; arista slender, filiform, longer than the preceding part, which is lanceolate. Scutellum prominent, armed with two minute spines. Abdomen transverse, much broader than the thorax. Legs slender, somewhat short. Wings rather narrow; veins feeble, in structure like those of *Stratiomys*.

13. *GABAZA ARGENTEA*, n. s. *Fœm.* Nigra, antennis fulvis, arista alba, thorace abdomineque argenteo-tomentosis, tarsis albedo-testaceis, alis limpidis, venis pallidis.

*Female.* Coal-black. Antennæ tawny, arista white; thorax and abdomen with bright silvery tomentum; tarsi whitish testaceous; wings limpid, veins pale. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

Gen. *SARGUS*, *Fabr.*

14. *Sargus metallinus*, *Fabr.* See Vol. I. p. 110.



15. *SARGUS COMPLENS*, n. s. *Fæm.* Rufescente-fulvus, capitis vertice nigro, antennis testaceis, abdomine fasciis latis abbreviatis piceis, tarsis posticis basi tibiisque posticis nigris, alis cinereis, basi sub-luridis, apud costam exteriorem nigro-fuscis.

*Female.* Reddish tawny. Head black above, testaceous beneath; antennæ testaceous; abdomen with four broad abbreviated piceous bands; legs tawny, hind tibiæ black with a tawny apical mark, hind tarsi black towards the base; wings greyish, slightly lurid towards the base, blackish-brown about the exterior part of the costa, veins black, tawny towards the base; halteres testaceous, tawny towards the tips. Length of the body 6 lines; of the wings 14 lines.

16. *SARGUS ROGANS*, n. s. *Mas et Fæm.* Capitis vertice nigro, antennis pedibusque testaceis, tibiis tarsisque posticis nigris, alis sub-cinereis apice obscurioribus. *Mas.* Luteo-testaceus. *Fæm.* Ferruginous.

*Male and Female.* Head black above; antennæ and legs testaceous; hind tibiæ and hind tarsi black; wings greyish, darker towards their tips; veins black, tawny towards the base. *Male.* Lutescent testaceous. *Female.* Ferruginous; wings darker than those of the male. Length of the body 5 lines; of the wings 10 lines.

#### Gen. *NERUA*, n. g.

*Fæm.* *Corpus* longiusculum, sublineare. *Caput* transversum, thorace non latius. *Antennæ* breves; articulus tertius rotundus; arista apicalis, longa, tenuis, setiformis. *Thorax* productus. *Scutellum* spinis quatuor longiusculis. *Abdomen* depressum, sublineare, thorace vix latius, non longius. *Pedes* graciles, non longi. *Alæ* angustæ; venæ bene determinatæ.

*Female.* Body rather long, nearly linear. Head transverse, not broader than the thorax. Antennæ short; third joint round; arista apical, long, slender, setiform. Thorax long. Abdomen flat, thin, nearly linear, hardly broader and not longer than the thorax. Legs slender, not long. Wings narrow; veins distinctly marked, in structure like those of *Clitellaria*.

This genus may be distinguished from *Culcua* by the shape of the abdomen.

17. *NERUA SCENOPINOIDES*, n. s. *Fæm.* Atra, nitens, antennis fulvis, scutelli spinis pedibusque albis, alis nigrocineis, postice pallidioribus, venis nigris, halteribus testaceis.

*Female.* Coal-black, shining; antennæ tawny; thorax slightly tomentose; spines of the scutellum and legs white; wings blackish grey, paler towards the hind border, veins black; halteres testaceous. Length of the body 3 lines; of the wings 5 lines.

## Gen. ADRAGA, n. g.

*Mas.* *Corpus* sublineare. *Caput* thorace non latius. *Oculi* connexi. *Antennæ* brevissimæ; articulus tertius rotundus; arista apicalis, gracilis, setiformis. *Thorax* sutura transversa bene determinata. *Scutellum* prominens, trigonum, marginatum. *Abdomen* thorace paullo brevius, non latius. *Pedes* breviusculi, validi, non dilatati. *Alæ* mediocres.

*Male.* Body nearly linear, rather thick. Head not broader than the thorax. Eyes connected. *Antennæ* very short; third joint round; arista apical, long, slender, setiform. Thorax with the transverse suture very distinct. *Scutellum* prominent, triangular, with a border. Abdomen a little shorter and not broader than the thorax. Legs stout, rather short, not dilated. Wings moderately broad; veins in structure like those of *Clitellaria*.

18. ADRAGA UNIVITTA, n. s. *Mas.* Nigra, subtilissime punctata, antennis piceis, thorace vitta cinerea, tarsis posterioribus albis, alis nigricantibus.

*Male.* Coal-black, hardly shining; *antennæ* piceous; thorax and abdomen very minutely punctured; thorax with a stripe of cinereous tomentum; posterior tarsi white; wings blackish, veins black. Length of the body 3 lines; of the wings 5 lines.

## Gen. OBRAPA, n. g.

*Fæm.* *Corpus* brevè, latum, crassum, convexum. *Caput* transversum, thorace angustius. *Antennæ* breves; articulus tertius rotundus; arista apicalis, gracilis, setiformis. *Thorax* sutura transversa bene determinata. *Abdomen* transversum, thorace paullo latius, valde brevius. *Pedes* breviusculi, validi; antici subdilatati. *Alæ* mediocres.

*Female.* Body short, broad, thick, convex. Head transverse, narrower than the thorax. *Antennæ* short; third joint round; arista apical, slender, setiform. Thorax with the transverse suture very distinct. *Scutellum* large, prominent, with a marginal suture. Abdomen transverse, a little broader than the thorax, and not more than half its length. Legs stout, rather short, the fore pair slightly dilated. Wings moderately broad, veins rather irregular; discal areolet large, quadrilateral; externomedial veins, subanal vein, and anal vein very slight; subanal vein and anal vein united at some distance from the border.

19. OBRAPA PERILAMPOÏDES, n. s. *Fæm.* Atra, nitens, subtilissime punctata, capite glabro, antennis piceis, tarsis posterioribus albidis, alis limpidis, venis albidis basi nigris, halteribus niveis.

*Female.* Deep black, shining, very minutely punctured; head smooth; *antennæ* piceous; posterior tarsi whitish, with black tips; wings limpid, veins whitish, black towards the base; halteres snow-white. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

20. *OBRAPA CELYPHOÏDES*, n. s. *Fam.* *Atra*, nitens, subtilissime punctata, capite glabro, antennis piceis, tarsis albidis, alis nigro-cinereis, venis nigris, halteribus niveis.

*Female.* Deep black, very minutely punctured. Head smooth; antennæ piceous; tarsi whitish; wings blackish cinereous, veins black; halteres snow-white. Length of the body 2 lines; of the wings 4 lines.

Fam. *TABANIDÆ*, *Leach.*

Gen. *TABANUS*, *Linn.*

21. *TABANUS RECUSANS*, n. s. *Fam.* *Piceus*, cinereo-subtomentosus, callo nigro angusto, antennis rufis apice nigris, humeris rufescentibus, abdomine basi glaucescente, tibiis obscure ferrugineis, alis nigro-fuscis, apice margineque postico cinereis.

*Female.* Piceous, slightly covered with cinereous tomentum. Callus of the head black, long, slender, entire; antennæ red, black towards the tips, angle of the third joint very small; thorax reddish on each side in front of the forewings; abdomen with glaucous tomentum towards the base; tibiæ mostly dark ferruginous; wings blackish-brown, cinereous towards the tips and along the hind border; veins black; forebranch of the cubital vein simple, very slightly undulating, its tip, like that of the radial vein, clouded with blackish-brown. Length of the body  $6\frac{1}{2}$  lines; of the wings 12 lines.

Fam. *ASILIDÆ*, *Leach.*

Subfam. *DASYPOGONITES*, *Walk.*

Gen. *DASYPOGON*, *Fabr.*

22. *DASYPOGON INOPINUS*, n. s. *Fam.* *Piceus*, facie aurata, mystace parvo albo, antennis ferrugineis, apices versus nigris, capite transverso longioribus, articulo tertio lineari, pectore fasciis tribus canis, abdominis segmentis ferrugineo fasciatis, alis luridis, apud costam nigro-fuscis, halteribus testaceis.

*Female.* Piceous. Face flat, brightly gilded; epistoma not prominent; mystax with a few white bristles; mouth black; antennæ ferruginous, black towards the tips, longer than the breadth of the head; third joint linear, longer than the first and the second together; pectus with three hoary bands; abdomen subclavate, nearly twice the length of the thorax; a ferruginous band on the hind border of each segment; legs mostly ferruginous; wings lurid, blackish-brown towards the costa, veins black; halteres testaceous. Length of the body 8 lines; of the wings 14 lines.

23. *DASYPOGON HONESTUS*, n. s. *Lutescente-fulvus*, capite, antennis, pedibus alisque nigris, thorace vitta schistacea nigro marginata vit-

tisque duabus lateralibus cinereis, pectore postico nigro, abdomine  
—?, tibiis tarsisque posticis fulvis.

Luteous-tawny. Head, antennæ, hind part of the pectus, and legs black, shining; mystax with very few bristles; antennæ almost as long as the breadth of the head, third joint long, slender, linear; thorax with a slate-coloured blackish-bordered stripe, a short slate-coloured stripe on each side; abdomen wanting; hind tibiæ and tarsi tawny; wings blackish, veins black. Length of the body 4? lines; of the wings 7 lines.

Subfam. LAPHRITES, *Walk.*

Gen. LAPHRIA, *Fabr.*

24. *Laphria scapularis*, *Wied. Auss. Zweifl.* 1. 516. 29.

Inhabits also Java.

25. *Laphria aurifacies*, *Macq.* See Vol. I. p. 10.

26. LAPHRIA GLORIOSA, n. s. *Mas et Fœm.* Aurata, capite pectoreque albis, abdomine purpureo, guttis lateralibus albis, basi viridi, lateribus pedibusque cyaneis, alis fuscis basi cinereis, halteribus testaceis.

*Male and Female.* Head and pectus with white tomentum and hairs; mystax with a few black bristles; mouth and antennæ black; third joint of the latter linear, conical at the tip, longer than the first and the second together; thorax with cupreous-gilded tomentum; abdomen purple, green at the base, blue and with a row of white dots along each side; legs blue; wings brown, cinereous towards the base, veins black; halteres testaceous. *Male.* Legs very thick and pilose. Length of the body 9 lines; of the wings 16 lines.

27. LAPHRIA SOCIA, n. s. *Fœm.* Cyaneo-viridis, capite aurato, antennarum articulo tertio longissimo subfusiformi, thoracis tomento subaurato, vitta media nuda, pectore argenteo, abdomine purpureo-cyaneo basi viridi maculis lateralibus argenteis, alis nigro-cinereis basi cinereis.

*Female.* Bluish-green. Head brightly gilded, hind part silvery; mystax with six long black bristles; third joint of the antennæ very elongate subfusiform; thorax with slightly gilded tomentum, excepting a broad bare middle stripe; pectus with silvery tomentum; abdomen purplish-blue, green towards the base, with spots of silvery tomentum along each side; hind borders of the ventral segments white; wings grey, blackish-grey for almost half the length from the tips and along three-fourths of the length of the hind border, veins black; halteres ferruginous. Length of the body  $8\frac{1}{2}$  lines; of the wings 16 lines.

28. LAPHRIA CONSOBRINA, n. s. *Fœm.* Purpurea, capite aurato, pectore argenteo, abdomine viridi-cyaneo, maculis lateralibus argenteis, alis nigricantibus basi cinereis.



*Female.* Purple. Head brightly gilded, hind part silvery, underside with white hairs; mystax with six long black bristles; pectus with silvery tomentum; abdomen greenish blue, with spots of silvery tomentum along each side; hind borders of the ventral segments white; wings slightly grey, blackish for full half the length from the tips and along full three-fourths of the length of the hind border, veins black; halteres ferruginous, with black tips. Length of the body  $7\frac{1}{2}$  lines; of the wings 14 lines.

This species much resembles *L. socia*, but may be distinguished by the difference of colour, and more especially by the more undulating first branch vein, by the much less oblique third externo-medial vein, and by the subanal vein, which is united to the anal vein much nearer the border.

29. *LAPHRIA SODALIS*, n. s. *Mas.* Cyanea, capite aurato, antennarum articulo tertio fusiformi, thoracis lateribus purpureo-viridibus, pectore ventreque argenteis, abdomine maculis lateralibus argenteis, alis cinereis, apice posticeque nigricantibus.

*Male.* Blue. Head brightly gilded, vertex and hind part silvery, underside with white hairs; mystax with four long black bristles, and with several gilded bristles; third joint of the antennæ elongate-fusiform; sides of the thorax varied with green and purple; abdomen with spots of silvery tomentum along each side, underside and pectus silvery; wings grey, black towards the tips and along half the length of the hind border; halteres white. Length of the body 7 lines; of the wings 13 lines.

The veins of this species are hardly different from those of *L. consobrina* in structure, excepting the third externo-medial, which is united to the fourth nearer the border.

30. *LAPHRIA COMES*, n. s. *Mas et Fæm.* Viridi-cyanea, capite aurato, antennarum articulo tertio fusiformi, pectore ventrisque lateribus argenteis, abdomine viridi (mas) aut purpureo-cyaneo (fæm.) maculis lateralibus argenteis, alis nigricantibus basi cinereis.

*Male and Female.* Greenish blue. Head brightly gilded, hind part silvery; mystax with six long black bristles; third joint of the antennæ elongate-fusiform; pectus with silvery tomentum; abdomen green in the male, purplish-blue in the female, with silvery spots along each side, underside with two silvery stripes; wings blackish, grey at the base and along the costa for more than one-third of the length, veins and halteres black. Length of the body 6– $6\frac{1}{2}$  lines; of the wings 11–12 lines.

This may be only a small variety of *L. consobrina*; but the wings are not darker towards the costa as in that species, and the first branch-vein is much more straight.

31. *LAPHRIA CONSORS*, n. s. *Mas et Fæm.* Viridis (mas) aut cyanea (fæm.), capite aurato, antennarum articulo tertio brevifusiformi, pectore

argenteo, abdomine æneo-viridi (mas) aut cyaneo-purpureo (fœm.) maculis lateralibus argenteis, alis nigricantibus, basi cinereis.

*Male and Female.* Green (male) or blue (female). Head gilded, hind part silvery; mystax with a few black bristles; third joint of the antennæ short-fusiform; pectus silvery; abdomen æneous-green in the male, bluish-purple in the female, with silvery spots along each side; wings blackish, grey at the base and along the costa for more than one-third of the length; veins and halteres black. Length of the body  $4\frac{1}{2}$ –5 lines; of the wings 8–9 lines.

The straight and not oblique third externo-medial vein distinguishes this species from all the preceding *Laphriæ*.

32. *LAPHRIA GERMANA*, n. s. *Fœm.* Cyanea, facie aurata, antennarum articulo tertio longissime subfusiformi, abdominis maculis lateralibus pectoreque argenteis, alis cinereis, basi subcinereis, halteribus albis.

*Female.* Blue. Head gilded in front, vertex and hind part silvery; mystax with six black bristles; third joint of the antennæ very long, subfusiform; pectus silvery; abdomen purplish blue, shorter than in the preceding species, with silvery spots along each side; wings grey, slightly grey towards the base; halteres white. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

33. *LAPHRIA FLAGRANTISSIMA*, n. s. *Mas.* Rufescente-cervina, capite aurato, antennis pedibusque rufescentibus, thorace vittis tribus latissimis (lateralibus abbreviatis) pectoreque nigricantibus, alis lutescentibus, plaga postica interiore fasciaque latissima exteriore nigricantibus.

*Male.* Reddish fawn colour. Head gilded; mystax with numerous gilded bristles; mouth lanceolate, very stout; antennæ reddish, third joint long, lanceolate, abruptly acuminate at the tip; thorax with three very broad blackish stripes; disk of the pectus black; abdomen with the segments darker towards the base, underside black towards the tip; legs reddish, stout; tarsi with black bands beneath; wings somewhat luteous, with a large blackish patch on the hind border near the base, and with a very broad blackish band near the tip; halteres testaceous. Length of the body 11 lines; of the wings 22 lines.

34. *LAPHRIA JUSTA*, n. s. *Mas.* Lutea, capite aurato, ore, antennis apice, thoracis maculis duabus posticis, pectore, abdominis fasciis latis femoribusque nigris, alis cinereis, apud costam luridis.

*Male.* Luteous. Head gilded; mystax with numerous gilded bristles; mouth short, black; antennæ reddish tawny, third joint lanceolate, black except at the base; thorax with the disk somewhat darker, two large black spots hindward; pectus black; abdomen linear, with a broad black band on the fore border of each segment; femora black above except at the tips, hind femora black also beneath; wings

greyish, slightly clouded with dark grey, lurid along the costa for three-fourths of the length; halteres testaceous. Length of the body 8 lines; of the wings 14 lines.

35. *LAPHRIA MANIFESTA*, n. s. *Mas et Fœm.* Fulva, capite argenteo (mas) aut pallide aurato (fœm.), antennis apice nigris, thoracis disco et abdominis maculis subtrigonis subæneo-ferrugineis, scutello quadrisetos, alis subcinereis.

*Male and Female.* Tawny. Head silvery in the male, pale-gilded in the female; mystax with several slender bristles; mouth lanceolate; third joint of the antennæ very elongate-subfusiform, black towards the tip; disk of the thorax and nearly triangular dorsal spots of the abdomen ferruginous with a slight æneous tinge; pectus testaceous, slightly silvery; wings slightly greyish; veins black, testaceous at the base, where the wings also have a testaceous tinge; halteres testaceous. Length of the body  $4\frac{1}{2}$ –5 lines; of the wings 8–9 lines.

36. *LAPHRIA APERTA*, n. s. *Fœm.* Testacea, capite subargenteo, antennis abdominisque apice nigris, alis nigricantibus basi limpidis, halteribus albidis.

*Female.* Testaceous. Head with whitish slightly silvery tomentum; mystax with very few bristles; antennæ black, third joint long, linear, conical at the tip; thorax with a very indistinct darker stripe; abdomen black towards the tip; wings blackish, limpid towards the base; veins black, testaceous at the base; halteres whitish. Length of the body 4 lines; of the wings 7 lines.

37. *LAPHRIA DECLARATA*, n. s. *Mas.* Fulva, capite albo, facie argentea micante, antennis tibiisque posticis nigris, thorace atro, alis cinereis, venis nigris, halteribus testaceis.

*Male.* Tawny, slender. Head white, face brilliant silvery; mystax with four bristles; mouth black, short, slender; eyes flat in front; antennæ black, almost as long as the breadth of the head; third joint long, slender, lanceolate; thorax deep black; scutellum reddish tawny; hind tibiæ black, with tawny tips; wings greyish, veins black; discal veinlet and third externomedial vein forming one straight line, as in the genus *Atomosia*; halteres testaceous. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

#### Subfam. ASILITES, *Walk.*

##### Gen. TRUPANEA, *Macq.*

38. *TRUPANEA CONTRADICENS*, n. s. *Mas et Fœm.* Nigricans, cinereo-subtomentosa, thoracis vittis pectoreque cano-tomentosis, pedibus nigris, tibiis rufis apice nigris, alis fusco-cinereis, areola radialis schistaceo vittata. *Mas.* Capite subaurato, barba testaceo-albida, abdominis segmentis lutescente marginatis. *Fœm.* Capite barbaque albidis, abdomine stylato, segmentis cano marginatis.

*Male and Female.* Blackish. Antennæ and legs black; thorax slightly

covered with cinereous tomentum; stripes, pectus, and underside of the abdomen hoary; tibiæ red, with black tips; wings brownish grey; radial areolet with a slate-coloured stripe. *Male*. Head slightly gilded; mystax with a few black bristles and many gilded bristles; beard testaceous-whitish; sides of the abdomen and hind borders of the segments lutescent. *Female*. Head and beard whitish; mystax with many black bristles and a few white bristles; abdomen with an apical style, more than one-third of the length of the preceding part, sides and hind borders of the segments hoary. Length of the body 12-14 lines; of the wings 14-18 lines.

Gen. ASILUS, *Linn.*

39. *Asilus longistylus*, *Wied. Auss. Zweifl.* 1. 433. 13.

Inhabits also Java.

Gen. OMMATIUS, *Illiger.*

40. OMMATIUS NOCTIFER, n. s. *Mas.* Niger, capite aurato, thoracis incisuris, scutello, pectore, segmentorum abdominalium marginibus ventreque canis, tibiis fulvis apice nigris, alis cinereis costa apiceque nigricantibus, halteribus ferrugineis.

*Male*. Black. Head gilded; mystax with a few black and several gilded bristles; sutures of the thorax, scutellum, sides, pectus, hind borders of the abdominal segments, and underside hoary; tibiæ tawny, with black tips; wings cinereous, blackish along the costa and towards the tips, veins black; halteres ferruginous. Length of the body 6-6½ lines; of the wings 11-12 lines.

41. OMMATIUS LUCIFER, n. s. *Mas.* Æneo-niger, capite argenteo, pectore albido, abdominis segmentis ferrugineo marginatis, pedibus testaceis, femoribus nigro-vittatis, tarsis nigris, alis limpidis apice nigricantibus costa atra apud medium incrassata, halteribus testaceis.

*Male*. Bronze-black. Head silvery in front; mystax with a few black and a few whitish bristles; pectus whitish; hind borders of the abdominal segments ferruginous; legs testaceous; femora striped with black; tarsi black, ferruginous at the base; wings limpid, blackish at the tips; costa deep black, incrassated in the middle; halteres testaceous. Length of the body 6 lines; of the wings 11 lines.

42. OMMATIUS RETRAHENS, n. s. *Fæm.* Cinereo-niger, facie argentea, pectore albido, pedibus testaceis, tarsis, femoribus tibiisque apice femoribusque posticis nigris, alis limpidis apice subcinereis, halteribus testaceis.

*Female*. Cinereous-black. Head silvery white in front; mystax with very few white and black bristles; pectus whitish; legs testaceous; tips of the anterior femora and of the middle tibiæ black; hind femora and hind tarsi black; anterior tarsi and hind tibiæ black, testaceous towards the base; wings limpid, slightly cinereous towards the tips;



veins black; halteres testaceous. Length of the body 4 lines; of the wings 7 lines.

Gen. LEPTOGASTER, *Meigen*.

43. LEPTOGASTER FERRUGINEUS, n. s. *Mas*. Ferrugineus, pectore albo, abdomine nigro, segmentorum marginibus ventroque testaceis, pedibus fulvis, femoribus apice nigris, tibiis piceo vittatis, tibiis posticis tarsisque nigris basi testaceis, alis sublimpidis, halteribus testaceis apice piceis.

*Male*. Ferruginous. Head pale, gilded in front, hind side and pectus white; mouth and antennæ tawny, the latter blackish towards the tips; abdomen black; hind borders of the segments and under side testaceous; legs tawny; anterior femora with a testaceous band before the tips, which are black; hind femora and anterior tibiæ striped with piceous, the latter black towards the tips; tarsi and hind tibiæ black, testaceous at the base; wings very slightly greyish, veins black; halteres testaceous, piceous towards the tips. Length of the body 7 lines; of the wings 10 lines.

44. LEPTOGASTER LONGIPES, n. s. *Mas*. Ferrugineus, pectore alido, abdomine piceo, segmentis apice fulvescentibus, pedibus anterioribus fulvescentibus, posticis piceis longissimis, femoribus posticis basi testaceis, alis subcinereis basi obscurioribus costa venisque nigris, halteribus testaceis apice nigris.

*Male*. Ferruginous. Head testaceous in front; mouth and antennæ black; pectus whitish; abdomen piceous, hind borders of the segments somewhat tawny; legs somewhat tawny; hind legs piceous, very long, their femora testaceous at the base; wings slightly greyish, darker towards the base, costa and veins black; halteres testaceous, with black knobs. Length of the body 4 lines; of the wings 8 lines.

45. LEPTOGASTER ALBIMANUS, n. s. *Mas*. Niger, capite antico pectoreque albis, antennis basi ferrugineis, abdominis segmentis cano fasciatis, femoribus, tibiis tarsisque basi albis, femoribus posticis luteo fasciatis, alis limpidis, halteribus albidis apice piceis.

*Male*. Black. Head in front and the pectus white; antennæ ferruginous at the base; abdomen long, a hoary band on the hind border of each segment; femora, tibiæ, and tarsi white at the base; hind legs long, rather stout; hind femora with a luteous band; wings limpid, veins black; halteres whitish, with piceous knobs. Length of the body 5 lines; of the wings 7 lines.

Fam. LEPTIDÆ, *Westw*.

Gen. LEPTIS, *Fabr*.

46. *Leptis ferruginosa*, *Wied*. See Vol. I. p. 118.

Gen. CHRYSOPILA, *Macq*.

47. *CHRYSOPILA VACILLANS*, n. s. *Mas et Fem*. Lutescens, capite

nigro, thorace subvittato, abdominis segmentis nigro fasciatis, alis sublimpidis apud costam flavescens, venis fusco latissime marginatis, stigmatibus nigro-fusco.

*Male and Female.* Lutescent. Head of the female black, shining; thorax with two brown bands which are paler and indistinct hindward; abdomen with a broad black band on each segment; tarsi blackish towards the tips; wings nearly limpid, yellowish along the costa, veins exteriorly with very broad brownish borders, stigma blackish brown. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

### Fam. BOMBYLIDÆ, *Leach.*

#### Subfam. THEREVITES, *Walk.*

48. *THEREVA CONGRUA*, n. s. *Mas.* Nigra, glaucescente albo tomentosa, albo pilosa, capite argenteo, thorace trivittato et bilineato, pedibus nigris, femoribus albis, alis cinereis stigmatibus elongato venisque nigris.

*Male.* Black, with glaucous-white tomentum and with white hairs. Head silvery in front; thorax with three blackish brown stripes, the middle one with a dark stripe on each side, broader and more distinct than the lateral pair; abdomen beneath and legs black, femora white; wings grey, with an elongated black stigma and black veins; halteres black. Length of the body 5 lines; of the wings 8 lines.

#### Subfam. BOMBYLITES, *Walk.*

#### Gen. ANTHRAX, *Fabr.*

49. *ANTHRAX PELOPS*, n. s. *Mas.* Ferruginea, thoracis margine rufo piloso, pectore abdomineque nigris, abdomine fasciis duabus, maculis duabus apicalibus, plagaque ventrali subtrigona argenteis, alis cinereis, basi costaque nigris.

*Male.* Closely allied to *A. Tantalus*. Dark ferruginous. Head above, antennæ, pectus, abdomen, and legs black; thorax bordered with red hairs; pectus with a silvery dot on each side; abdomen with red hairs on each side at the base, with two silvery bands, with two silvery apical spots, and with a ventral, nearly triangular, silvery patch; wings cinereous, black at the base and along five-sixths of the length of the costa, veins and halteres black. Length of the body 8 lines; of the wings 18 lines.

50. *Anthrax semiscita*, *Walk.* See Vol. I. p. 118.

51. *Anthrax degenera*, *Walk.* See Vol. I. p. 15.

#### Gen. GERON, *Meigen.*

52. *GERON SIMPLEX*, n. s. *Mas.* Ater, antennis pedibusque nigris, alis subcinereis, halteribus fulvis.

*Male.* Deep black. Eyes bright red; proboscis a little longer than the thorax; antennæ and legs black; wings slightly greyish, veins black; halteres tawny. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

Fam. EMPIDOÆ, *Leach.*

Gen. HYBOS, *Fabr.*

53. HYBOS BICOLOR, n. s. *Mas.* Fulvus, ore antennisque testaceis, abdomine, femoribus posticis apice tibiisque anticis piceis, tarsi anterioribus ferrugineis, alis obscure cinereis.

*Male.* Tawny. Mouth and antennæ testaceous; abdomen, hind femora at the tips, and fore tibiæ piceous, anterior tarsi ferruginous; wings dark grey, veins black. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

Fam. DOLICHOPIDÆ, *Leach.*

Gen. PSILOPUS, *Meigen.*

54. Psilopus æneus, *Fabr. Syst. Antl.* 268. 9.

Inhabits also Java.

55. PSILOPUS BENEDICTUS, n. s. *Mas et Fœm.* Aureo-viridis, facie pectoreque argenteis, antennis testaceis apice nigris, thorace vittis tribus cupreis, abdomine fasciis cupreo-purpureis, maculis lateralibus albidis, pedibus testaceis tibiis posticis tarsisque nigris, alis subcinereis, costam versus et apud venas transversas nigrofuscis, halteribus testaceis. *Fœm.* Vertex cyaneo-purpureo, abdomine fasciis cyaneis.

*Male and Female.* Golden green. Face silvery; antennæ testaceous, black towards the tips, arista full as long as the thorax; thorax with three cupreous stripes; pectus silvery; abdomen with cupreous purple bands and with whitish spots along each side; legs testaceous, tarsi and hind tibiæ black; wings slightly greyish, blackish brown along the costa and about the transverse veins, veins black, fore branch of the præbrachial vein curved inward, discal transverse vein undulating; halteres testaceous. *Female.* Vertex bluish purple; abdomen with blue bands. Length of the body 4-4½ lines; of the wings 7-8 lines.

56. PSILOPUS LUCIGENA, n. s. *Mas.* Aureo-viridis, facie pectoreque argenteis, antennis tarsisque nigris, thorace vittis tribus rufo-cupreis, abdomine fasciis cupreo-purpureis, femoribus lutescentibus, tibiis piceis, femoribus anticis apice nigricantibus, alis nigris apice albis, halteribus fulvis apice nigris.

*Male.* Golden green. Face and pectus silvery; antennæ black, arista longer than the thorax; thorax with three broad reddish cupreous stripes; abdomen with broad cupreous purple bands; femora lutescent, tibiæ piceous, fore femora blackish towards the tips, tarsi

black; wings black, tips snow-white, fore branch of the præbrachial vein slightly curved inward, discal transverse vein much curved outward; halteres tawny, with black tips. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

57. *PSILOPUS flavicornis*, *Wied. Auss. Zweifl.* 11. 227. 31.

Inhabits also Sumatra.

58. *PSILOPUS TERMINIFER*, n. s. *Mas.* Aureo-viridis, vertice cyaneo-purpureo, facie pectoreque argenteis, antennis, pedibus halteribusque testaceis, abdomine apicem versus atro fasciis duabus cupreis, alis subcinereis apice nigris.

*Male.* Golden-green, slender. Vertex bluish-purple; face and pectus silvery; antennæ testaceous, arista about half the length of the body; fourth and fifth segments of the abdomen deep black with a cupreous band on the hind border of each segment, tip blue; legs and halteres testaceous; wings greyish, paler along the hind border, tips black, fore branch of the præbrachial vein slightly curved inward, discal transverse vein slightly undulating. Length of the body 3 lines; of the wings 5 lines.

59. *PSILOPUS ORCIFER*, n. s. *Fæm.* Purpureus, facie pectoreque subcinereis, antennis, pedibus halteribusque nigris, abdomine cyaneo-viridi segmentorum marginibus posticis purpureis, alis nigricantibus margine postico cinereo. *Var.* Viridis, vertice cyaneo, abdominis segmentis basi nigris.

*Female.* Purple, rather stout. Face and pectus slightly cinereous; antennæ, legs, and halteres black; abdomen bluish-green, hind borders of the segments purple; wings blackish, cinereous along the hind border, fore branch of the præbrachial vein forming an obtuse angle, discal transverse vein very undulating. *Var.* Green. Vertex blue; abdominal segments black at the base. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

60. *PSILOPUS EGENS*, n. s. *Mas et Fæm.* Purpureus, facie pectoreque cyaneo-viridi cinereo subtomentosis, antennis, pedibus halteribusque nigris, metathorace viridi, abdomine cyaneo, suturis nigris, alis cinereis.

*Male and Female.* Purple. Face and pectus slightly covered with cinereous tomentum, the latter bluish-green; antennæ black, arista much more than half the length of the body; metathorax green; abdomen blue, sutures black; legs and halteres black; wings grey, fore branch of the præbrachial vein much curved inward, discal transverse vein straight; length of the body  $2\frac{1}{2}$ – $2\frac{3}{4}$  lines; of the wings 5 lines.

#### Gen. DOLICHOPUS, *Latr.*

61. *DOLICHOPUS TRIGONIFER*, n. s. *Fæm.* Cupreo-viridis, facie argentea, antennis, pedibus halteribusque testaceis, pectore, ventre ab-



dominisque maculis lateralibus trigonis albidis, abdomine purpureo marginibus posticis nigris, tarsis posterioribus nigricantibus, alis cinereis.

*Female.* Cupreous green. Face silvery; antennæ, legs, and halteres testaceous; pectus, abdomen beneath, and triangular spots on each side whitish; abdomen purple, hind borders of the segments black; posterior tarsi blackish; wings grey, veins black, præbrachial vein forming a right angle at its flexure, between which and the border it is much curved inward, discal transverse vein very slightly curved outwards. Length of the body 3 lines; of the wings 5 lines.

This species resembles the *Psilopi* in the structure of the præbrachial vein.

#### Gen. DIAPHORUS, *Meigen*.

62. DIAPHORUS RESUMENS, n. s. *Mas et Fœm.* Obscure viridis (mas) aut niger (fœm.), facie pectoreque albidis, antennis piceis, abdomine nigro-cupreo basi obscure testaceo, pedibus anterioribus tibiisque posticis basi obscure testaceis, pedibus posticis nigris, alis nigricantibus apud marginem posticum pallidioribus, halteribus testaceis.

*Male and Female.* Dark green (male) or black (female). Face and pectus whitish; antennæ piceous; abdomen cupreous-black, dull testaceous towards the base; hind legs black, hind tibiæ towards the base and anterior legs dull testaceous; wings blackish, paler along the hind border, veins black, præbrachial vein and discal transverse vein straight; halteres testaceous. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

#### Fam. SYRPHIDÆ, *Leach*.

##### Gen. CERIA, *Fabr.*

63. CERIA SMARAGDINA, n. s. *Fœm.* Saturate metallico-viridis, subtilissime punctata, faciei lateribus cupreis, antennis nigris, arista nivea, thorace bivittato, abdomine æneo-viridi, tarsis nigris, alis dimidio costali nigro, halteribus testaceis.

*Female.* Deep metallic green, very finely punctured. Head blue in front, sides of the face cupreous-purple; mouth, antennæ, and tarsi black; arista snow-white; thorax with two almost contiguous darker stripes; abdomen æneous green, with the exception of the petiole, which is very thick; wings slightly greyish, costal half black; halteres testaceous. Length of the body 7 lines; of the wings 14 lines.

64. CERIA RELICTA, n. s. *Mas.* Nigra, faciei lateribus, thoracis maculis quatuor humeralibus, pectoris fasciis duabus lateralibus, scutello, abdominis maculis duabus basalibus fasciisque duabus flavis, tibiis flavescensibus apice piceis, alis apud costam nigris, halteribus testaceis.

*Male.* Black. Head yellow beneath, and in front with the exception of a black stripe on the disk of the face; arista white; thorax with

"Relicta" here should be "relictura": - see next page.

two yellow spots on each side in front; scutellum yellow; pectus with an oblique yellow band on each side; abdomen not petiolated, with a tumid yellow spot on each side at the base, hind borders of the third and fourth segments yellow; femora at the tips and tibiæ yellow, the latter piceous towards the tips, tarsi piceous; wings greyish-black towards the costa, excepting a lurid costal streak which extends along half the length from the base; halteres testaceous. Length of the body 6 lines; of the wings 11 lines.

65. *CERIA RELICTA*, n. s. *Fæm.* Nigra, faciei lateribus abdominisque fasciis duabus flavis, antennis ferrugineo variis, pedibus fulvis, alis cinereis costam versus nigris, halteribus stramineis.

*Female.* Black. Head yellow, beneath and in front with the exception of a black stripe on the disk of the face; first and third joints of the antennæ somewhat ferruginous, arista white; thorax with two indistinct yellowish marks on the transverse suture, hind border of the scutellum and hind borders of the second and third abdominal segments yellow; legs tawny, tibiæ paler towards the base; wings green, black for nearly half the breadth from the costa; halteres straw-colour. Length of the body 6 lines; of the wings 11 lines.

This may prove to be the female of *C. relictura*, notwithstanding its great difference from that species in the marks of the thorax and of the abdomen, and in the colour of the legs.

#### Gen. MICRODON, *Meig.*

66. *MICRODON FULVICORNIS*, n. s. *Mas.* Niger, aureo-subpubescens, antennis, abdomine, pedibus halteribusque fulvis, femoribus nigris, tibiis nigro vittatis, alis fuscis postice cinereis.

*Male.* Black. Head with gilded pubescence, cinereous behind and beneath; antennæ tawny, second joint above towards the tip and third joint piceous; thorax slightly covered with gilded tomentum; pectus with cinereous tomentum; abdomen with gilded tomentum towards the tip; legs tawny, femora mostly black, tibiæ with black stripes; wings cinereous, dark-brown about the costa, veinlet which bisects the subapical areolet incomplete, as it is also in the following species; halteres tawny. Length of the body 6 lines; of the wings 12 lines.

67. *MICRODON APICALIS*, n. s. *Mas et Fæm.* Niger, aureo-pubescens, thorace abdomineque fasciatis, pedibus halteribusque fulvis, alis nigro-fuscis postice obscure cinereis.

*Male and Female.* Black, with gilded tomentum, which forms two bands on the thorax, and one on each side of the pectus; abdomen with three gilded tomentose bands, the third subapical, first segment ferruginous beneath; legs tawny, femora at the base and coxæ black; wings blackish-brown, dark cinereous hindward; halteres tawny. Length of the body 5-6 lines; of the wings 10-12 lines.

Gen. GRAPTOMYZA, *Wied.*

68. GRAPTOMYZA TIBIALIS, n. s. *Mas*. Testacea, vertice pectorisque fasciis duabus piceis, antennis supra nigris, abdominis lateribus fasciis duabus subtrigonis apiceque nigris, alis cinereis.

*Male*. Testaceous. Vertex and mouth piceous; epistoma with a piceous line on each side; third joint of the antennæ black above; abdomen black along each side and at the tip, and with two black bands which are angular in front; wings cinereous. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

Gen. ERISTALIS, *Latr.*

69. Eristalis splendens, *Leguillon, Voy. aut. du Monde; Macq. Dipt. Exot.* 11. 2. 49. 28.

Inhabits also Solomon's Islands.

70. ERISTALIS RESOLUTUS, n. s. *Mas et Fœm.* Niger, capite antice albo, thorace vittis duabus fasciaque pectorisque disco cinereis, scutello fulvo, abdomine fasciis interruptis æneo-viridibus, tibiis basi fulvescentibus, alis fuscis (mas) aut obscure fuscis (fœm.) basi cinereis, halteribus testaceis.

*Male and Female*. Black. Head shining, with white tomentum beneath and on each side of the face; third joint of the antennæ piceous, arista simple; thorax with two cinereous stripes and with one cinereous band, somewhat chalybeous towards the scutellum, which is tawny; the band continued on each side of the pectus, whose disk is cinereous; abdomen with an interrupted æneous-green band on the second segment, third and fourth segments æneous-green, each with three large black spots; tibia somewhat tawny towards the base; wings brown (male) or dark brown (female), cinereous towards the base; halteres testaceous. Length of the body 6 lines; of the wings 10 lines.

71. ERISTALIS CONDUCTUS, n. s. *Fœm.* Niger, faciei lateribus albis, antennis, scutello, abdominis fasciis pedibusque testaceis, thorace antico albido, alis subcinereis apice obscurioribus.

*Female*. Black. Head shining, with white tomentum behind, beneath and on each side of the face; antennæ, scutellum, and legs testaceous, arista simple; thorax whitish in front, the whitish part continued in a short band on each side of the pectus; abdomen testaceous at the base and beneath, and with three testaceous bands; hind tibiæ with black tips; wings slightly greyish, darker towards the tips, cubital vein much less bent than usual; halteres testaceous. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

72. ERISTALIS SUAVISSIMUS, n. s. *Fœm.* Fulvus, capite testaceo vertice nigro, thorace vittis quinque testaceis, abdomine nigro maculis sex lutescentibus, segmentorum marginibus posticis æncis, pedibus nigris testaceo fasciatis, alis sublimpidis punctis duobus costalibus nigris.

*Female.* Tawny. Head with testaceous tomentum, vertex black, shining; antennæ testaceous, arista simple; thorax with five testaceous stripes; pectus with two oblique testaceous bands on each side; abdomen black, with six somewhat luteous spots, the basal pair larger and darker than the middle pair, which are larger than the hind pair, apical segment with two testaceous points, hind borders of the segments æneous above, testaceous beneath; legs black, tibiæ at the base and tarsi testaceous; wings nearly limpid, costa with two black points; halteres testaceous. Length of the body  $5\frac{1}{2}$  lines; of the wings 10 lines.

73. *ERISTALIS MUSCOIDES*, n. s. *Mas.* Cyaneo-iridis subchalybeus, capitis callo antennisque fulvis, faciei lateribus albo tomentosus, thorace subvittato, abdomine nigro maculis æneo-iridibus, pedibus nigris, alis subcinereis, halteribus albis.

*Male.* Bluish-green, with a slight chalybeous tinge. Face with white tomentum along each side, middle callus tawny, shining; antennæ pale tawny, arista plumose; thorax with three indistinct black stripes, the lateral pair oblique, callus on each side beneath pale tawny; abdomen black, second segment with a broad interrupted bluish green band, third segment with four æneous-green streaks, fourth segment also with four streaks which are united on the hind border, ventral segments whitish on each side; legs black; femora bluish black towards the base; wings slightly cinereous; halteres white. Length of the body 4 lines; of the wings 8 lines.

Gen. *HELOPHILUS*, *Meigen*.

74. *Helophilus quadrivittatus*, *Wied. Auss. Zweifl.* 11. 168. 22. (*Eristalis*).

Inhabits also Hindostan.

75. *HELOPHILUS MESOLEUCUS*, n. s. *Fæm.* Niger, faciei lateribus niveo tomentosus, thorace vittis quatuor canis, scutello, abdominis fascia antica latissima interrupta basi que lutescentibus, alis cinereis, venis basi halteribusque fulvis.

*Female.* Black. Face with snow-white tomentum on each side; thorax with four hoary stripes; pectus with a cinereous disk; scutellum pale luteous; abdomen pale luteous at the base, and with a broad interrupted pale luteous band on the second segment, third and fourth segments somewhat chalybeous, the former livid along the fore border, under side with two lateral abbreviated pale luteous stripes; hind femora thick; wings grey, veins towards the base, and halteres, tawny. Length of the body  $6\frac{1}{2}$  lines; of the wings 12 lines.

Gen. *XYLOTA*, *Meigen*.

76. *XYLOTA VENTRALIS*, n. s. *Fæm.* Nigro-chalybea, capite albo tomentoso, scutello fulvo, vittis duabus ventralibus latis abbreviatis



testaceis, pedibus piceo et testaceo variis, alis fuscis basi cinereis, halteribus testaceis.

*Female.* Blackish chalybeous. Head with whitish tomentum, excepting the callus on the vertex and another on the front; mouth and antennæ black; scutellum tawny; abdomen beneath with two very broad testaceous stripes extending from the base to two-thirds of the length; legs dingy testaceous, femora and hind tibiæ partly piceous, hind femora thick, piceous, slightly chalybeous, armed with spines beneath; wings dark brown, cinereous towards the base; halteres testaceous. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

Gen. ORTHONEURA, *Macq.*

77. ORTHONEURA BASALIS, n. s. *Fem.* Chalybeo-nigra, nitens, cano-subtomentosa, antennis ferrugineis basi fulvis articulo tertio elongato, tarsis posterioribus piceis, tarsis anticis tibiisque anterioribus fulvis, his nigro fasciatis, alis subcinereis fusco fasciatis, halteribus testaceis.

*Female.* Chalybeous-black, very shining, partly and slightly covered with hoary tomentum; antennæ tawny, third joint ferruginous, long, linear, tawny at the base; anterior tibiæ tawny with a black band, fore tarsi tawny, hinder tarsi piceous; wings greyish, with a sub-apical brown band which is abbreviated hindward, veins towards the base and halteres testaceous; alulæ whitish. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

Gen. SYRPHUS, *Fabr.*

78. *Syrphus ægrotus*, *Fabr.* See Vol. I. p. 124.

79. *Syrphus ericetorum*, *Fabr. Ent. Syst. iv. 287. 34.*

Inhabits also Sierra Leone, Hindostan, and Java.

Fam. MUSCIDÆ, *Latr.*

Subfam. TACHINIDES, *Walk.*

Gen. MASICERA, *Macq.*

80. MASICERA NOTABILIS, n. s. *Mas.* Nigra, longiuscula, capite abdominisque fasciis albis, frontalibus atris, pectore cano, scutelli margine postico abdominisque lateribus ferrugineis, alis cinereis, venis fusco marginatis.

*Male.* Black, rather long, with long stout bristles; head white, silvery, with white hairs behind and beneath, frontalia deep black, widening slightly to the face, facialia without bristles, epistoma not prominent; eyes bare; palpi ferruginous at the tips; antennæ extending to the epistoma, third joint slightly widening towards the tip, nearly four times the length of the second, arista slender, very much longer than the third joint; pectus and sides of the thorax hoary, hind border of the scutellum ferruginous; abdomen fusiform, much longer

than the thorax, with a broad slightly interrupted white band on the fore border of each segment, sides of the second and third segments slightly ferruginous; wings grey, veins black bordered with brown, præbrachial vein forming a slightly acute angle at its flexure, near which it is much curved inward, and is thence straight to its tip, discal transverse vein curved inward, parted by less than its length from the border, and by rather more than half its length from the flexure of the præbrachial; alulæ white; halteres testaceous. Length of the body 6 lines; of the wings 12 lines.

81. *MASICERA?* *TENTATA*, n. s. Nigra, cinereo-tomentosa, capite argenteo frontalibus atris, antennarum articulo tertio basi rufo, thorace quadrivittato, abdomine?, pedibus longiusculis, alis nigricantibus postice cinereis.

Black, with cinereous tomentum and with moderately stout bristles. Head silvery with white hairs behind and beneath, frontalia deep black, slightly widening towards the face, facialia without bristles, epistoma not prominent; antennæ extending nearly to the epistoma; third joint cinereous, slender, linear, red towards the base, rounded at the tip, more than four times the length of the second; arista slender, much longer than the third joint; thorax with four slender black stripes; scutellum not cinereous; abdomen wanting; legs rather long and slender; wings blackish, cinereous hindward and at the tips, veins black, præbrachial vein forming a very obtuse angle at its flexure, from whence it is almost straight to its tip, discal transverse vein slightly undulating, parted by much less than its length from the border, and by a little less than its length from the flexure of the præbrachial; alulæ large, yellowish white; halteres piceous. Length of the body 4? lines; of the wings 7 lines.

82. *MASICERA SOLENNIS*, n. s. *Fæm.* Nigra, breviscula, cinereo-tomentosa, capite albo, frontalibus atris, thorace quadrivittato, scutelli margine postico ferrugineo, abdomine subtessellato, alis cinereis.

*Female.* Black, rather short, with cinereous tomentum. Head white, with white hairs behind and beneath, frontalia deep black, widening towards the face, facialia without bristles, epistoma not prominent; eyes bare; antennæ almost reaching the epistoma, third joint cinereous, linear, rounded at the tip, more than four times the length of the second, arista slightly stout towards the base, much longer than the third joint; thorax with four slender black stripes; scutellum ferruginous along the hind border; abdomen short-conical, with three broad interrupted cinereous bands; legs rather short; wings grey, veins black, præbrachial vein forming a slightly obtuse angle at its flexure, from whence it is almost straight to its tip, discal transverse vein nearly straight, parted by much less than its length from the border and by a little less than its length from the flexure of the præbrachial; alulæ cinereous. Length of the body 3 lines; of the wings 5 lines.

83. *MASICERA SIMPLEX*, n. s. *Fœm.* Nigra, capite albo, frontalibus atris, thorace cinereo-tomentoso quadrivittato, abdomine fasciis cinereis late interruptis, alis cinereis.

*Female.* Black, with stout bristles. Head white, with white hairs beneath, frontalia deep black, linear, face oblique, facialia without bristles, epistoma not prominent; eyes bare; antennæ almost reaching the epistoma, third joint cinereous, linear, rather broad, almost truncated at the tip, about four times the length of the second, arista slender, very much longer than the third joint; thorax and pectus with cinereous tomentum, the former with four slender black stripes; abdomen shining, subelliptical, a little longer than the thorax, with a widely interrupted cinereous band on the fore border of each segment; legs stout; wings cinereous; veins black; præbrachial vein forming a very obtuse angle at its flexure, from whence it is straight to its tip, discal transverse vein almost straight, parted by hardly less than its length from the border, and by very much more than its length from the flexure of the præbrachial; alulæ white. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

84. *MASICERA GUTTATA*, n. s. *Fœm.* Nigra, capite albo, frontalibus atris, thoracis vittis tribus pectoreque cinereis, abdomine guttis lateralibus albis, alis cinereis.

*Female.* Black, with short slight bristles. Head white, frontalia deep black, widening slightly towards the epistoma, face oblique, facialia without bristles, epistoma not prominent; antennæ reaching the epistoma, third joint linear, slightly truncated at the tip, full four times the length of the second, arista slender; thorax with three cinereous stripes; pectus cinereous; abdomen elongate-oval, a little longer than the thorax, a row of white dots along each side on the fore borders of the segments; wings cinereous, a little darker along the costa towards the base, veins black, præbrachial vein forming a very obtuse angle at its flexure, from whence it is almost straight to its tips; discal transverse vein straight, parted by more than its length from the border and by nearly twice its length from the flexure of the præbrachial; alulæ whitish. Length of the body  $2\frac{1}{2}$  lines; of the wings 4 lines.

Gen. *EURYGASTER*, *Macq.*

85. *EURYGASTER TENTANS*, n. s. *Fœm.* Nigra, latiuscula, cinereo tomentosa, capite albo, frontalibus atris, thorace vittis quatuor nigris, scutelli margine postico ferrugineo, abdomine subtessellato, alis cinereis apud costam subfuscis.

*Female.* Black, rather broad, with cinereous tomentum. Head white, with white hairs behind and beneath, frontalia deep black, narrow, widening towards the face, which is oblique, facialia with bristles along more than one-third of the length from the frontalia, epistoma not prominent; eyes pubescent, palpi ferruginous; antennæ ex-

tending to the epistoma, third joint cinereous, hardly widening from the base to the tip, which is somewhat truncated, arista slender, very much longer than the third joint; thorax with four indistinct black stripes; scutellum ferruginous hindward; abdomen conical, not longer than the thorax, with three broad, slightly interrupted, cinereous bands, second segment indistinctly ferruginous on each side; legs stout; wings grey, slightly brownish in front, veins black, testaceous towards the base, præbrachial vein forming an obtuse angle at its flexure, hardly curved inward from thence to its tip, discal transverse vein very slightly undulating, parted by much less than its length from the border and from the flexure of the præbrachial; alulæ whitish. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

86. *EURYGASTER DECIPIENS*, n. s. *Fœm.* Nigra, aureo-tomentosa, capite antico argenteo frontalibus atris, antennis ferrugineis, thorace vittis quatuor nigris, abdomine fulvo subtessellato vitta basali nigra, pedibus fulvis, alis cinereis.

*Female.* Black, stout, with gilded tomentum. Head silvery white in front and beneath, frontalia deep black, widening slightly towards the upright face, the bristles on each side hardly extending to the facialia, epistoma not prominent; eyes bare; antennæ ferruginous, extending to the epistoma, third joint linear, somewhat truncated at the tip, more than four times the length of the second joint, arista slender, much longer than the third joint; thorax with numerous long bristles, with four slight black stripes; pectus cinereous; abdomen tawny, conical, not longer than the thorax, with short stout bristles, and with three broad, slightly gilded, somewhat interrupted bands, a short black stripe at the base; legs tawny, stout, tibiæ darker than the femora, tarsi piceous; wings grey, somewhat darker in front, veins black, præbrachial vein forming a right angle at its flexure, near which it is much curved inward, discal transverse vein nearly straight, parted by more than half its length from the border, and by a little less than its length from the flexure of the præbrachial; alulæ slightly cinereous. Length of the body 4 lines; of the wings 7 lines.

87. *EURYGASTER PHASIOÏDES*, n. s. *Mas.* Nigra, cano-tomentosa, capite albo frontalibus atris, antennis, scutello, abdomine femoribusque fulvis, abdomine fasciis duabus posticis albidis vittaque nigra, alis cinereis basi albis, costa plagaque nigricantibus.

*Male.* Black, with hoary tomentum. Head white, frontalia deep black, widening towards the upright face, facialia with bristles along more than half the length from the epistoma, which is not prominent; eyes bare; palpi testaceous; antennæ tawny, extending to the epistoma, third joint linear, slightly rounded at the tip, more than four times the length of the second joint, arista slender, much longer than the third joint; thorax with four very slender black stripes;



abdomen tawny, short-oval, not longer than the thorax, with a black stripe which does not extend to the tip, third and fourth segments with a white band along each fore border; legs very stout, femora tawny; wings cinereous, white and with testaceous veins at the base, blackish along the costa, and with a broad black band which is abbreviated hindward, præbrachial vein forming an obtuse angle at its flexure, from whence it is very slightly curved inward to its tip, discal transverse vein nearly straight, parted by much less than its length from the border, and by hardly less than its length from the flexure of the præbrachial; alulæ whitish. Length of the body  $3\frac{1}{2}$  lines; of the wings 6 lines.

Subfam. DEXIDES, *Walk.*

Gen. RUTILIA, *Desv.*

88. *Rutilia plumicornis*, *Guérin, Macq. Dipt. Exot.* 11. 3. 82. 3. Pl. 9. f. 8.

Inhabits also Offak, New Guinea.

89. *RUTILIA ANGUSTIPENNIS*, n. s. *Fæm.* Nigro-viridis, capite cinereo frontalibus atris, thoracis lateribus subpurpurascens, scutello purpureo, abdomine viridi basi purpureo, tibiis ferrugineis, alis angustis lanceolatis obscure fuscis basi nigris.

*Female.* Blackish-green. Head cinereous, frontalia deep black, widening much towards the face, epistoma very prominent, arista stout, bare; thorax with almost obsolete stripes, purplish along each side; scutellum mostly purple; abdomen dark green, purple at the base; legs black, tibiæ ferruginous; wings narrow, lanceolate, dark brown, black towards the base, præbrachial vein forming a much rounded angle at its flexure, near which it is slightly curved inward, and is thence straight to its tip, discal transverse vein very slightly undulating, parted by less than half its length from the border, and by much more than half its length from the flexure of the præbrachial; alulæ dark brownish cinereous. Length of the body 8 lines; of the wings 16 lines.

Gen. DEXIA, *Meigen.*

90. *DEXIA PECTORALIS*, n. s. *Fæm.* Testacea, capite pectoreque albis frontalibus atris, antennis fulvis, thorace cinereo vittis quatuor nigris, abdomine fulvo apicem versus spinoso fasciis duabus nigris, pedibus longis tibiis tarsisque nigris, alis cinereis venis subfusco late marginatis.

*Female.* Testaceous. Head white, frontalia deep black, widening towards the face, facialia without bristles, epistoma prominent; antennæ tawny, not reaching the epistoma, third joint of the antennæ long, linear, arista plumose; thorax cinereous, with four black stripes, of which the inner pair are much narrower than the outer pair; scu-

tellum tawny hindward ; pectus white ; abdomen tawny, with a few spines towards the tip, hind borders of the third and fourth segments and tips black ; legs long, black, coxæ and femora testaceous ; wings grey, veins very broadly bordered with pale brown, præbrachial vein forming a slightly obtuse angle at its flexure, between which and its tip it is slightly curved inward, discal transverse vein undulating, parted by about half its length from the border, and by a little less than its length from the flexure of the præbrachial ; alulæ cinereous Length of the body 4 lines ; of the wings 9 lines.

Gen. PROSENA, *St.-Farg.*

91. PROSENA ARGENTATA, n. s. *Mas et Fœm.* Testacea (mas) aut nigra (fœm.), capite thoraceque argenteis, antennis fulvis, abdomine longo fasciis vittaque nigris (mas) aut brevior fasciis cinereis lateribusque basi testaceis (fœm.), pedibus nigris femoribus testaceis, alis subfuscescentibus (mas) aut cinereis (fœm.).

*Male and Female.* Head and thorax with bright silvery tomentum, facialia without bristles, epistoma slightly prominent ; eyes bare ; mouth black, testaceous towards the base, full as long as the thorax ; antennæ tawny, not reaching the epistoma, arista plumose ; legs black, coxæ and femora testaceous ; wings grey, veins black. *Male.* Testaceous. Pectus mostly white ; abdomen elongate-conical, with slight whitish reflexions, dorsal stripe and hind borders of the segments black ; legs long ; wings brownish towards the costa and about the veins, præbrachial vein forming a slightly obtuse angle at its flexure, between which and its tip it is very slightly curved inward, discal transverse vein hardly undulating, parted by less than half its length from the border, and by less than its length from the flexure of the præbrachial. Length of the body 5 lines ; of the wings 10 lines.

*Female.* Black. Pectus silvery ; scutellum deep black ; abdomen conical, with broad cinereous bands, first and second segments with broad interrupted testaceous bands, a testaceous mark on each side of the third segment at the base ; legs rather long, femora with black tips ; præbrachial vein forming a right angle at its flexure, curved inward from thence to its tip, discal transverse vein curved inward near its hind end, parted by less than its length from the border and from the flexure of the præbrachial. Length of the body  $3\frac{1}{2}$  lines ; of the wings 7 lines.

Subfam. SARCOPHAGIDES, *Walk.*

Gen. SARCOPHAGA, *Meigen.*

92. SARCOPHAGA COMPTA, n. s. *Fœm.* Nigra, cinereo-tomentosa, capite aurato subtus fulvo piloso, thorace vittis tribus nigris, abdomine tessellato, alis obscure cinereis.

*Female.* Black, with cinereous tomentum. Head gilded in front, clothed behind and beneath with tawny hairs, frontalia deep black,

hardly widening towards the face; thorax with three black very distinctly marked stripes, the middle one dilated on the scutellum; abdomen distinctly tessellated with six large cinereous excavated spots; wings grey, præbrachial vein forming a right angle at its flexure, near which it is much curved inward, and is thence straight to its tip, discal transverse vein hardly undulating, parted by much less than its length from the border, and by little more than half its length from the flexure of the præbrachial; alulæ white. Length of the body 5 lines; of the wings 10 lines.

93. *SARCOPHAGA INVARIATA*, n. s. *Mas et Fæm.* Nigra, cinereo-tomentosa, capite *maris* albo, thorace vittis quinque nigris, abdomine tessellato, alis cinereis.

*Male and Female.* Black, with cinereous tomentum. Thorax with five black stripes, the lateral pair incomplete; abdomen distinctly tessellated, the spots being much excavated; wings grey, præbrachial vein forming a right angle at its flexure, near which it is much curved inward, and is thence straight to its tip, discal transverse vein hardly undulating, parted by much less than its length from the border, and by rather more than half its length from the flexure of the præbrachial; alulæ white. *Male.* Head silvery white, frontalia deep black, linear; tomentum of the thorax and of the abdomen more whitish than that of the female. *Female.* Frontalia slightly widening towards the face. Length of the body 4-4½ lines; of the wings 8 lines.

#### Subfam. MUSCIDES, *Walk.*

##### Gen. *IDIA*, *Meigen.*

94. *Idia australis*, *Walk. Cat. Dipt. pt. 4. 809.* = *I. xanthogaster*, *Wied.*  
Inhabits also Australia.

95. *IDIA ÆQUALIS*, n. s. *Fæm.* *Ænea*, capite subtuberculato, thoracis lateribus pectoreque albido-testaceis lineis duabus lateralibus æneis, abdomine fulvo fasciis tribus æneis, pedibus testaceis tibiis apice femoribusque æneis, alis cinereis apice nigricantibus.

*Female.* *Æneous*-whitish, testaceous beneath. Head with minute tubercles on each side of the front, frontalia piceous, linear; thorax with an *æneous* stripe on each side in a line with the base of the wings, and with numerous points between these lines and the disk; abdomen pale tawny, with three *æneous* bands on the hind borders of the segments; legs testaceous, tibiæ towards the tips and femora *æneous*; wings greyish, with blackish tips, præbrachial vein forming an obtuse and much-rounded angle at its flexure, from whence it is almost straight to its tip, discal transverse vein parted by about half its length from the border and by about its length from the flexure of the præbrachial; alulæ very slightly cinereous; halteres testaceous. Length of the body 3½ lines; of the wings 6 lines.

Gen. MUSCA, *Linn.*

96. MUSCA GLORIOSA, n. s. (genus *Silbomyia*, *Macq.*). *Fæm.* Cyaneo-viridis, capite lætissime aurato frontalibus atris, antennis pedibusque nigris, thorace vittis quatuor cupreis, pectore maculis quatuor albis, abdomine viridi-cyaneo, vitta tenui purpurea, alis cinereis apud costam nigris, alulis albis.

*Female.* Golden green. Head brilliantly gilded, frontalia deep black, widening towards the face; a brilliantly-gilded lanceolate streak between the antennæ, which are black; epistoma piceous, slightly prominent; thorax with four cupreous stripes; pectus with four white tomentose spots; abdomen greenish blue with a very slender purple stripe; legs black, femora blackish green; wings grey, black for full one-third of the breadth from the costa, præbrachial vein forming a very obtuse angle at its flexure, from whence it is nearly straight to its tip, discal transverse vein very slightly undulating, parted by less than half its length from the border, and by more than half its length from the flexure of the præbrachial; alulæ pure white. Length of the body 6 lines; of the wings 12 lines.

97. MUSCA OPULENTA, n. s. (genus *Silbomyia*, *Macq.*) *Fæm.* Aureo-viridis, capite aurato, frontalibus atris, antennis piceis, thorace vittis quatuor subobsoletis cupreis, pectore maculis duabus albis, alis cinereis apud costam nigris, alulis albis.

*Female.* Golden green. Head brightly gilded, frontalia deep black, linear, epistoma piceous, slightly prominent; antennæ piceous; thorax with four almost obsolete cupreous stripes; pectus with a spot of white tomentum on each side; abdomen with a very indistinct cupreous stripe; tibiæ and tarsi black; wings grey, black along the costa, præbrachial vein forming a right angle at its flexure, near which it is slightly curved inward, and is thence straight to its tip, discal transverse vein undulating, parted by more than half its length from the border and from the flexure of the præbrachial; alulæ white. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

98. MUSCA MACULARIS, n. s. (genus *Chrysomyia*? *Desv.*) *Mas et Fæm.* Aureo-viridis, capite argenteo antice aurato frontalibus atris, antennis pedibusque nigris, thorace vittis tribus cupreis vix conspicuis, scutello cyaneo, pectore maculis quatuor lateralibus albo tomentosis, abdomine viridi-cyaneo maculis quatuor lateralibus albis, alis cinereis basi nigricantibus, alulis nigricantibus.

*Male and Female.* Golden green. Head brightly gilded, white behind; antennæ, tibiæ, and tarsi black; thorax with three indistinct cupreous stripes; scutellum blue; pectus with two white tomentose spots on each side; abdomen greenish blue with two transverse white spots on each side; femora blackish-green; wings grey, blackish at the base, præbrachial vein forming a slightly obtuse angle at its flexure, nearly straight from thence to its tip, discal transverse vein curved



outward towards its fore end, parted by about half its length from the border, and by much less than its length from the flexure of the præbrachial; alulæ blackish. *Female*. Head with a silvery white vertex, frontalia deep black, linear. Length of the body 56 lines; of the wings 10-12 lines.

99. *MUSCA MARGINIFERA*, n. s. (genus *Lucilia*, *Desv.*) *Fæm.* Viridicyanea, capite albido frontalibus atris, antennis pedibusque nigris, abdominis segmentis purpureo marginatis, alis cinereis basi subnigricantibus, alulis cinereis.

*Female*. Greenish-blue. Head whitish, frontalia deep black, linear, face and third joint of the antennæ cinereous; abdomen with a purple band on the hind border of each segment; legs black; wings grey, almost blackish at the base, præbrachial vein forming a hardly obtuse angle at its flexure, between which and its tip it is hardly curved inward, discal transverse vein nearly straight, parted by about half its length from the border, and by more than half its length from the flexure of the præbrachial; alulæ cinereous. Length of the body  $4\frac{1}{2}$  lines; of the wings 9 lines.

100. *MUSCA BENEDICTA*, n. s. (genus *Pyrellia*, *Desv.*) *Mas.* Aureoviridis, capite albo, antennis pedibusque nigris, alis cinereis basi subviridis venis basi fulvis, alulis testaceo-cinereis. *Var.?* Abdominis apice purpureo.

*Male*. Golden green. Head white in front; antennæ and legs black; wings cinereous, slightly lurid towards the base, veins tawny towards the base, præbrachial vein curved at the flexure, almost straight from thence to the tip, discal transverse vein slightly undulating, parted by full half its length from the border, and by little less than its length from the flexure of the præbrachial; alulæ cinereous with a testaceous tinge. *Var.?* or a distinct species: darker; abdomen purple at the tip. Length of the body 3 lines; of the wings 6 lines.

101. *MUSCA OBTRUSA*, n. s. (genus *Pyrellia*, *Desv.*) *Mas et Fæm.* Purpureo-cyanea, antennis pedibusque nigris, alis cinereis, alulis obscurioribus.

Very nearly allied to *M. refixa* and to *M. perfixa*, but differing slightly in the veins of the wings. *Male and Female*. Blue, more or less mingled with purple. Head black, slightly cinereous in front; antennæ and legs black; wings grey, veins black, præbrachial vein forming an almost angular curve at its flexure, nearly straight from thence to its tip, discal transverse vein very slightly undulating, parted by little more than half its length from the border, and by about its length from the flexure of the præbrachial; alulæ dark cinereous. Length of the body  $2\frac{1}{2}$ -3 lines; of the wings 5-6 lines.

102. *Musca domestica*, *Linn.* See Vol. I. p. 128.

103. *MUSCA OBSCURATA*, n. s. *Fæm.* Nigra, subcinerascens, capite postico albo, thorace vittis quatuor angustis nigris, abdomine tessel-

lato, alis obscure cinereis apud costam nigricantibus, alulis testaceo-cinereis.

*Female.* Black, slightly covered with cinereous tomentum. Head white behind; thorax with four slender black stripes; abdomen distinctly tessellated with four rows of cinereous reflecting spots; wings very dark grey, blackish towards the costa, præbrachial vein forming a somewhat rounded and very slightly obtuse angle at its flexure, hardly curved inward from thence to its tip, discal transverse vein slightly undulating, parted by less than half its length from the body, and by more than half its length from the flexure of the præbrachial; alulæ cinereous, with a testaceous tinge. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

104. *MUSCA PATIENS*, n. s. *Fœm.* Nigra, cinereo-tomentosa, frontilibus antennisque piceis, thorace vittis quatuor tenuissimis nigris, abdomine tessellato, alis cinereis.

*Female.* Black, with cinereous tomentum. Head whitish behind, frontalia piceous, linear; antennæ piceous; thorax with four very slender black stripes; abdomen tessellated; wings grey, veins black, præbrachial vein forming an obtuse and somewhat rounded angle at its flexure, from whence it is hardly curved inward to its tip, discal transverse vein undulating, parted by less than half its length from the border, and by more than half its length from the flexure of the præbrachial; alulæ slightly cinereous, with testaceous borders. Length of the body 3 lines; of the wings 6 lines.

105. *MUSCA ERISTALOÏDES*, n. s. (genus *Pollenia*? *Desv.*) *Mas et Fœm.* Aureo tomentosa, crassa, subtus testacea, capite antico albo frontalibus antice rufis, antennis piceis basi rufis, thorace vittis tribus abbreviatis fulvis, scutello cyaneo, abdomine cyaneo basi fasciisque duabus albis, pedibus fulvis, tibiis tarsisque nigris, alis cinereis apud costam fusciscentibus. *Var. mas.* Minor, thorace vittis tribus nigris.

*Male and Female.* Body thick; head white; frontalia of the female piceous, linear, red in front; epistoma prominent; proboscis long; palpi whitish; antennæ piceous, red at the base; thorax with gilded tomentum, and with three tawny bands which are abbreviated hindward, scutellum blue; pectus testaceous; abdomen blue, white at the base and with two white bands on the 3rd and 4th segments, 1st segment with a transverse blue spot on each side; legs tawny, tibiæ and tarsi black; wings grey, blackish along the exterior part of the costa, præbrachial vein forming a right but rounded angle at its flexure, near which it is curved inward and is thence straight to its tip, discal transverse vein slightly undulating, parted by a little more than half its length from the border, and by much more than half its length from the flexure of the præbrachial; alulæ testaceous. *Var. Male.* Smaller; thorax with three black stripes; abdomen with only

one white band, which is on the 4th segment. Length of the body 4-5 lines; of the wings 8-10 lines.

Gen. BENGALIA, *Desv.*

106. BENGALIA SPISSA, n. s. *Mas et Fæm.* Fulva, capite nigro antice albo, antennis testaceis, pectore fasciis duabus obliquis albidis, pedibus nigris femoribus basi coxisque fulvis, alis cinereis.

*Male and Female.* Tawny. Head black, with silvery tomentum in front, epistoma not prominent; palpi black; antennæ testaceous; pectus with an oblique whitish band on each side; legs black, femora towards the base and coxæ tawny; wings grey, veins black, testaceous towards the base, præbrachial vein forming an obtuse and rounded angle at its flexure, which is very near the border of the wing, straight from thence to its tip, discal transverse vein straight, parted by much less than its length from the border, and by very much more than its length from the flexure of the præbrachial; alulæ testaceous. Length of the body  $3\frac{1}{2}$  lines; of the wings 7 lines.

Subfam. ANTHOMYIDES, *Walk.*

Gen. ARICIA, *Macq.*

107. ARICIA SIGNIFICANS, n. s. *Mas et Fæm.* Fulva, subtus testacea, capite nigro argenteo-tomentoso, antennis testaceis, thorace vittis tribus albidis, abdominis apice picco, alis cinereis.

*Male and Female.* Tawny, testaceous beneath. Head black, with silvery tomentum, vertex much broader in the female than in the male; palpi tawny; antennæ testaceous; thorax with three whitish stripes in the disk, and with one on each side; abdomen picceous at the tip; tarsi blackish towards the tips; wings cinereous, veins black, tawny towards the base, discal transverse vein hardly undulating, parted by more than its length from the præbrachial transverse, and by less than its length from the border; alulæ pale cinereous, with testaceous borders. Length of the body 4 lines; of the wings 7 lines.

108. ARICIA CANIVITTA, n. s. *Fæm.* Fulva, subtus testacea, capite nigro, facie argentea, palpis antennisque testaceis, thoracis disco, abdominis plagis duabus trigonis pedibusque nigris, thorace vitta cana, alis cinereis.

*Female.* Tawny, testaceous beneath. Head black, face silvery; palpi and antennæ testaceous; disk of the thorax blackish, with a broad hoary stripe; disk of the scutellum picceous; second and third segments of the abdomen with triangular black bands; legs black, coxæ and trochanters testaceous; wings grey, veins black, discal transverse vein hardly curved inward, parted by more than half its length from the border, and by a little less than its length from the præbrachial transverse; alulæ pale cinereous, with testaceous borders. Length of the body  $3\frac{1}{2}$  lines, of the wings 7 lines.

Gen. ANTHOMYIA, *Meigen*.

109. ANTHOMYIA PROCELLARIA, n. s. *Mas.* Nigra, subtus albida, capite argenteo, thorace fasciis duabus (prima interrupta) albis, abdomine vitta tenui fasciisque interruptis albidis, alis cinereis, halteribus testaceis.

Nearly allied to *A. pluvialis* and to *A. tonitruvi*. *Male.* Black, whitish beneath. Head silvery; thorax with two whitish bands, the first interrupted in the middle, widened on each side; scutellum elongate; abdomen with a slender whitish stripe, and with interrupted whitish bands, which are widened on each side; wings grey, veins black, discal transverse vein nearly straight, parted by less than half its length from the border and by hardly less than its length from the præbrachial transverse; alulæ grey, with testaceous borders; halteres testaceous. Length of the body 3 lines; of the wings 6 lines.

Gen. CÆNOSIA, *Meigen*.

110. CÆNOSIA LUTEICORNIS, n. s. *Mas.* Cana, capite antennisque pallide luteis, abdomine basi testaceo maculis octo nigris, pedibus halteribusque testaceis, alis sublimpidis apice nigris.

*Male.* Hoary. Head pale luteous, frontalia darker, widening towards the face; palpi white; antennæ pale luteous, extending to the epistoma, third joint long, slender, linear, arista plumose for half the length from the base; abdomen testaceous towards the base, with four dorsal black spots and with two black spots on each side towards the tip; legs testaceous; wings nearly limpid, with a black apical spot, discal transverse vein nearly straight, parted by less than its length from the border and by very much more than its length from the præbrachial transverse; alulæ white; halteres testaceous. Length of the body 3 lines; of the wings 5 lines.

Subfam. HELOMYZIDES, *Fallen*.Gen. CÆLOPA, *Meigen*.

111. CÆLOPA INCONSPICUA, n. s. *Fœm.* Cinerea, antennis piceis, pectore antico, abdomine pedibusque fulvis, his nigro variis, alis cinereis, halteribus testaceis.

*Female.* Cinereous, flat. Antennæ piceous; fore part of the pectus, abdomen and legs tawny, the latter with diffuse blackish bands; wings grey, veins black, with the usual structure, tawny towards the base; halteres testaceous. Length of the body 2 lines; of the wings  $3\frac{1}{2}$  lines.

Gen. XARNUTA, *Walk*.

112. Xarnuta leucotelus, *Walk*. See Vol. I. p. 28.



Gen. HELOMYZA, *Fallen.*

113. HELOMYZA PICIPES, n. s. *Fæm.* Fulva, capite, antennis femoribusque nigris, abdominis segmentis nigro marginatis, tibiis tarsisque piceis, alis cinereis apud costam luridis vena discali transversa fusco subnebulosa, halteribus testaceis. *Var.* Thoracis vitta lata abdomineque piceis.

*Female.* Tawny. Head and antennæ black, arista plumose; thorax with two slender, darker, almost obsolete stripes; hind borders of the abdominal segments black; legs piceous, femora black, coxæ tawny; wings grey, with a lurid tinge towards the costa, discal transverse vein straight, slightly clouded with brown, parted by about half its length from the border, and by more than twice its length from the præbrachial transverse; halteres testaceous. *Var.* Thorax with a broad piceous stripe; abdomen piceous. Length of the body 3 lines; of the wings 6 lines.

114. HELOMYZA ATRIPENNIS, n. s. *Mas.* Fulva, scutello nigro, pectore piceo, abdomine ferrugineo, alis nigris postice cinereis.

*Male.* Tawny. Antennæ pale tawny, arista plumose; thorax with two slender, darker, almost obsolete stripes; scutellum black; pectus piceous; abdomen ferruginous; wings black, cinereous along the hind border for more than half its length from the base, veins as in the preceding species. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

115. HELOMYZA RESTITUTA, n. s. *Fæm.* Testacea, abdomine punctis sex nigris, alis cinereis apice nigricantibus venis transversis nigricante nebulosis.

*Female.* Testaceous. Third, fourth, and fifth segments of the abdomen with two black points on each fore border; wings grey, with a slight lurid tinge towards the costa, blackish at the tips, transverse veins clouded with blackish, veins with the usual structure. Length of the body  $2\frac{1}{2}$  lines; of the wings 5 lines.

Gen. DRYOMYZA, *Fallen.*

116. DRYOMYZA SEMICYANEA, n. s. *Fæm.* Ferruginea, vertice piceo, antennis fulvis, thorace cyanescente, abdomine cyaneo basi ferrugineo, pedibus testaceis, alis subcinereis apud costam luridis.

*Female.* Ferruginous. Vertex piceous, face slightly covered with whitish tomentum; antennæ tawny, arista very minutely pubescent; thorax tinged with blue; abdomen blue, tawny at the base; legs testaceous; wings greyish, lurid along the costa, veins tawny, præbrachial vein forming a very slight angle where it joins the discal transverse, with a slight curve from thence to its tip, præbrachial transverse stout, slightly clouded, discal transverse straight, upright, parted by much less than half its length from the border and by a

little more than its length from the præbrachial transverse; halteres testaceous. Length of the body  $3\frac{1}{2}$ – $4\frac{1}{2}$  lines; of the wings 7–9 lines.

Gen. SEPEDON, *Latr.*

117. SEPEDON COSTALIS, n. s. *Mas*. Cinerea, capite testaceo guttis quatuor nigris, antennis nigris basi testaceis arista alba, abdomine pedibusque fulvis femoribus posticis denticulatis, alis fusceseenti-cinereis, costa testacea.

*Male*. Cinereous. Head testaceous, with a black dot on each side above and two more towards the mouth; antennæ black, testaceous at the base, second joint very long, arista white; thorax with four slender indistinct darker lines, pectus hoary; abdomen and legs tawny, tarsi piceous, hind femora denticulated; wings brownish cinereous, slightly testaceous along the costa; halteres testaceous. Length of the body  $4\frac{1}{2}$  lines; of the wings 8 lines.

Subfam. LAUXANIDES, *Walk.*

Gen. LAUXANIA, *Latr.*

118. LAUXANIA DUPLICANS, n. s. *Fæm*. Nigro-eyanea, antennis piceis, articulo tertio longissimo, tarsis basi albidis, tibiis intermediis sordide albidis, alis limpidis.

*Female*. Blackish-blue, shining. Antennæ piceous, third joint very long, reddish beneath, arista bare; legs black, tarsi whitish towards the base, middle tibiæ dingy whitish; wings limpid, veins pale, discal transverse vein white, parted by a little less than its length from the border and by nearly twice its length from the præbrachial transverse; halteres white. Length of the body 2– $2\frac{1}{2}$  lines; of the wings 3–4 lines.

119. LAUXANIA MINUENS, n. s. *Fæm*. Nigra, nitens, antennis longis arista nuda, tarsis albidis, alis sublimpidis, halteribus albis.

*Female*. Black, shining. Third joint of the antennæ long, arista bare; tarsi whitish; wings very slightly greyish, veins pale, of the usual structure; halteres white. Length of the body  $1\frac{1}{4}$  line; of the wings  $2\frac{1}{2}$  lines.

Gen. LONCHÆA, *Fallen.*

120. LONCHÆA? INOPS, n. s. *Mas et Fæm*. Nigra, nitens, antennis piceis arista plumosa, scutello ferrugineo, tibiis, tarsis halteribusque fulvis, alis subcinereis.

*Male and Female*. Black, shining. Antennæ piceous, third joint short, arista plumose; scutellum somewhat ferruginous; tibiæ, tarsi, and halteres tawny; wings slightly greyish, veins pale, discal transverse vein parted by much less than its length from the border and by nearly twice its length from the flexure of the præbrachial. Length of the body  $1\frac{1}{2}$  line; of the wings 3 lines.